| Index of Claims |          |  |          |                 |          |          |          |          |                |                |            |          | pplication/Control No. |                     |              |              |          |              |             |           |               |          | Applicant(s)/Patent under Reexamination |            |           |              |              |         |          |          |              |                |  |
|-----------------|----------|--|----------|-----------------|----------|----------|----------|----------|----------------|----------------|------------|----------|------------------------|---------------------|--------------|--------------|----------|--------------|-------------|-----------|---------------|----------|---|------------|-----------|--------------|--------------|---------|----------|----------|--------------|----------------|--|
|                 |          |  |          |                 |          |          |          |          |                |                |            |          |                        | 10/684,686          |              |              |          |              |             |           |               |          |   |            | YE ET AL. |              |              |         |          |          |              |                |  |
|                 |          |  | Ш        |                 |          |          | Ш        |          |                |                |            |          |                        |                     |              | Examiner     |          |              |             |           |               |          |   |            |           | Art Unit     |              |         |          |          |              |                |  |
| <br>St          |          |  |          |                 |          |          |          |          |                |                |            |          |                        | Stephen M. D'Agosta |              |              |          |              |             |           |               |          | 2617                                    |            |           |              |              |         |          |          |              |                |  |
| √ Rejected      |          |  |          |                 |          |          |          |          | (Through numer |                |            |          |                        | era                 | al)          |              |          | N            | Non-Elected |           |               |          | A                                       |            | Appeal    |              |              |         |          |          |              |                |  |
| = Allowed       |          |  |          |                 |          |          |          | ÷        |                | _              | Restricted |          |                        |                     |              |              |          | ı            | Int         | erfe      | eren          | ice      |   | 0          |           | Ob           | jec          | ted     |          |          |              |                |  |
| Claim Dat       |          |  |          |                 |          |          | <u> </u> |          |                |                | Claim      |          |                        |                     | _            | Dat          |          |              |             |           |               |          | aim                                     |            | Date      |              |              |         | <u>.</u> |          |              |                |  |
| <u> </u>        |          | 3  |          |                 |          |          |          |          |                | $\dashv$       | H          |          |                        |                     |              | П            | Ť        | Ť            | Т           | T         |               | 1        |   |            | ÌП        | Т            | Ī            | Ť       | Ť        | Γ        | Τ            | П              |  |
| Final           | Original | 22<br>06   |          |                 |          |          |          |          |                |                |            | Final    | Originat               |                     |              |              |          |              |             |           |               |          | Finat                                   | Original   |           |              |              | !       |          |          |              |                |  |
|                 | 1        | =  |          |                 |          |          |          |          |                |                |            |          | 51                     | $\exists$           | $\perp$      |              | $\pm$    | $\perp$      | $\pm$       |           | $\pm$         | ┧        |   | 101        |           |              | +            | $\pm$   | $\pm$    |          |              |                |  |
|                 | 3        | $\!$ | <u> </u> |                 |          | -        | _        | -        |                | _              | $\vdash$   |          | 52<br>53               | $\dashv$            | +            | 4            | +        | +            | -           | +         | +-            | 4        |   | 102<br>103 | $\sqcup$  | 4            | 4            | +       | +        | ╀        | ├-           |                |  |
|                 | 4        | 1  |          |                 |          |          |          |          |                |                | L          |          | 54                     | $\dashv$            | +            | 1            | 1        | $\perp$      | $\perp$     | $\perp$   | +-            | -        |   | 104        |           | +            | +            | +       |          |          | $\vdash$     |                |  |
|                 | 5        | =  |          |                 |          |          |          |          |                |                | F          |          | 55                     | $\Box$              |              | $\Box$       | 4        | $\prod$      | 1           | T         | 1.            | ]        |   | 105        |           | 4            | 1            | T       |          | L        | L            |                |  |
|                 | 6<br>7   | Y  | $\vdash$ | H               | $\vdash$ | -        | ⊢        | _        |                | $\dashv$       | $\vdash$   |          | 56<br>57               |                     | +            | +            | +        | +            | +           | +         | +             | -        |   | 106<br>107 |           | +            | +            | +       | +-       | ╁        | ├-           |                |  |
|                 | 8        |  |          |                 |          |          |          |          |                |                | L          |          | 58                     |                     |              | $\perp$      | 1        | 士            | 1           |           |               | ]        |   | 108        |           |              | 土            | İ       |          |          |              |                |  |
|                 | 9        | _  |          |                 |          | _        |          |          |                |                | L          | _        | 59                     | 4                   | -            | _            | 4        | 4            | 4           | _         | _             | -        |   | 109        |           |              | +            | $\perp$ | -        | ↓_       | L            | Щ              |  |
|                 | 10<br>11 | F  | _        |                 | _        | -        | -        | $\vdash$ |                | $\blacksquare$ | H          | $\dashv$ | 60<br>61               | ┪                   | $\dashv$     | $\dashv$     | $\dashv$ | +            | ┿           | +         | +             | +        |   | 110<br>111 |           | $\dashv$     | +            | ╁       | +        | $\vdash$ | <del> </del> | Н              |  |
|                 | 12       | $\Box$   |          |                 |          |          |          |          |                |                |            |          | 62                     |                     |              |              |          |              |             |           |               |          |   | 112        |           | 士            |              |         |          |          |              |                |  |
|                 | 13<br>14 | Ξ  | _        |                 |          | -        |          |          |                |                | F          |          | 63<br>64               | 4                   | 4            | $\dashv$     | 4        | 4            | 4           |           | ╁-            | -        |   | 113        |           | $\perp$      | 4            | 1       | +        | -        | -            | Н              |  |
|                 | 15       | =  |          | Н               |          |          |          |          |                | $\dashv$       | H          |          | 65                     | $\dashv$            | $\dashv$     | +            | +        | +            | +           | +         | ╁             | 1        |   | 114<br>115 | Н         | +            | +            | +       | ╁╌       | ╁        | ┝            | Н              |  |
|                 | 16       | Ξ  |          |                 |          |          |          |          |                |                |            |          | 66                     |                     | $\Box$       |              |          |              |             |           |               |          |   | 116        |           |              |              |         |          |          |              |                |  |
|                 | 17<br>18 | Ļ  | <u> </u> | Н               | _        | L        | _        | L        | _              |                | H          |          | 67<br>68               | 4                   | 4            | $\dashv$     | 4        | 4            | +           | +         | +             | -        |   | 117        | Н         | 4            | $\downarrow$ | +       | 4        | _        | <u> </u>     | Ш              |  |
|                 | 19       | =  |          | Н               |          | $\vdash$ | $\vdash$ | $\vdash$ |                | $\dashv$       | $\vdash$   |          | 69                     | $\dashv$            | $\dashv$     | $\dashv$     | +        | 十            | +           | -         | +             |          |   | 118<br>119 | -         | $\dashv$     | +            | +       | +-       | +        | $\vdash$     | Н              |  |
|                 | 20       | Ė  |          |                 |          |          |          |          |                |                |            |          | 70                     |                     |              | コ            |          |              |             |           |               |          |   | 120        |           | 士            |              |         | 工        |          |              |                |  |
|                 | 21<br>22 | V 0  |          | H               |          | _        | _        | _        | _              | $\dashv$       | $\vdash$   |          | 71<br>72               | -                   | -            | +            | -        | 4            | +           | -         | $\perp$       | 4        |   | 121<br>122 | $\vdash$  | -+           | +            | +       | +        | ╀        | $\vdash$     | Н              |  |
|                 | 23       | V  |          |                 |          |          |          |          |                |                | $\vdash$   |          | 73                     | $\dashv$            | $\dashv$     | $\dashv$     | +        | +            | +           | ╁         | ╁╌            | -        |   | 123        | $\vdash$  | +            | +            | +       | +        | $\vdash$ | <del> </del> | Н              |  |
|                 | 24       | V  |          |                 |          |          |          |          |                |                |            |          | 74                     |                     |              |              | I        |              |             |           |               |          |   | 124        |           |              |              |         | 工        |          |              |                |  |
| ļ               | 25       |  | <u> </u> | H               | _        | _        | _        | _        |                | _              | -          |          | 75<br>76               | $\dashv$            | 4            | +            | 4        | +            | -           | +         | +             | -        |   | 125        | Н         | +            | +            | +       | - -      | ╄        | <u> </u>     | Н              |  |
|                 | 26<br>27 | V  | -        | H               |          |          |          | $\vdash$ |                | $\dashv$       | H          |          | 76<br>77               | +                   | $\dashv$     | +            | $^{+}$   | +            | +           |           | ╁             | 1        |   | 126<br>127 | $\vdash$  | +            | +            | +       | ╁        | ╁        | $\vdash$     | Н              |  |
|                 | 28       | Ι,   | _        |                 |          |          |          |          |                |                |            |          | 78                     |                     |              |              |          | $\downarrow$ |             | I         |               |          |   | 128        |           | 1            |              |         |          |          |              |                |  |
| ļ               | 29<br>30 | =  | ┝        | $\vdash$        | _        |          |          | -        |                |                | $\vdash$   | -        | 79<br>80               | 4                   | $\dashv$     | $\dashv$     | $\dashv$ | +            | +           | +         | ╁.            | 4        |   | 129<br>130 |           |              | +            | +       | +-       | ╀        | <u> </u>     |                |  |
|                 | 31       | 1  | 一        | $\vdash$        | -        | -        |          |          | Н              |                | $\vdash$   | $\dashv$ | 81                     | -+                  | $\dashv$     | ╁            | +        | +            | +           | +         | +             | 1        |   | 131        |           | +            | +            | +       | ╁        |          | H            | Н              |  |
|                 | 32       | П  |          |                 |          |          |          |          |                |                |            |          | 82                     |                     | 1            |              | 1        | $\perp$      |             |           |               | ] [      |   | 132        |           | 1            |              |         |          |          |              |                |  |
|                 | 33       | =  | <u> </u> | _               |          | $\vdash$ | _        | L        | -              |                | -          |          | 83<br>84               | _                   | +            | +            | +        | +            | +           | +         | +             | 4        |   | 133<br>134 |           | +            | -            | +-      |          | -        | $\vdash$     |                |  |
|                 | 35       | 0  |          |                 |          |          |          |          |                |                | H          |          | 85                     | ┰                   | $\dashv$     | +            | +        | +            | +           | +         | +             | ┪╏       |   | 135        |           | -+           | +            | +       | ╁        | ╁        | H            | Н              |  |
|                 | 36       | 0  |          |                 |          |          |          |          |                |                |            |          | 86                     |                     | 1            | $\Box$       | 1        | 1            |             | 1         |               | ] [      |   | 136        |           | 1            | 1            | Ţ       | 1        |          |              |                |  |
|                 | 37<br>38 |  |          | -               |          | -        | -        |          | $\vdash$       |                | $\vdash$   | $\dashv$ | 87<br>88               |                     | +            | +            | +        | +            | +           | +-        | +-            | -        |   | 137<br>138 |           | -+           | +            | +       | +        | -        | -            | Н              |  |
|                 | 39       |  | <u> </u> |                 |          |          | H        |          |                |                | $\vdash$   |          | 89                     | +                   | +            | +            | +        | +            | +           | +         | ╁             | 1        |   | 139        | Н         | $\dashv$     | +            | +       | +        | ╁        | ╁            | Н              |  |
|                 | 40       |  |          |                 |          |          |          |          |                |                |            |          | 90                     | _                   | 1            | $\downarrow$ | $\perp$  | $\downarrow$ | 1           | $\bot$    | $\top$        | ]        |   | 140        |           | $\downarrow$ | 1            | #       | 1        | L        |              |                |  |
|                 | 41<br>42 | -  | H        | Н               |          | <u> </u> | <u> </u> | -        |                | _              | -          | _        | 91<br>92               | $\dashv$            | $\dashv$     | +            | +        | +            | +           | +         | +             | -        |   | 141<br>142 | H         | $\dashv$     | +            | +       | +        | ╀        | ⊢            | Н              |  |
|                 | 43       |  |          |                 |          |          |          |          |                |                | $\vdash$   |          | 93                     | _                   | _†           | _            | _+       | _            | $\dagger$   | $\dagger$ | <del> </del>  | <u> </u> |   | 143        | $\vdash$  | $\dashv$     | +            | +       | +        | $\vdash$ | $\vdash$     | H              |  |
|                 | 44       |  |          | П               |          | П        | П        |          | Ц              | $\Box$         |            |          | 94                     | $\exists$           | $\dashv$     | $\perp$      | 1        | 1            | 1           | $\top$    | ightharpoonup | ]        |   | 144        | П         | 1            | $\perp$      | Ţ       | Ţ        | L        |              |                |  |
|                 | 45<br>46 | $\vdash$   | -        | $\vdash \vdash$ |          | Н        | Н        |          | Н              | $\dashv$       | $\vdash$   |          | 95<br>96               | +                   | +            | +            | +        | +            | +           | +         | +             | -        |   | 145<br>146 | $\vdash$  | +            | +            | +       | +        | ╀        | $\vdash$     | $\vdash\vdash$ |  |
|                 | 47       |  |          |                 | Н        |          | $\vdash$ |          |                | $\exists$      | $\vdash$   |          | 97                     | _                   | $^{\dagger}$ | ╁            | $\dashv$ | $\dagger$    | $\exists$   | +         | $\perp$       |          |   | 147        | $\vdash$  | $\dashv$     | +            | +       | +        | $\vdash$ |              | H              |  |
|                 | 48       |  |          |                 |          | П        |          |          |                | $\Box$         |            |          | 98                     | 7                   | 1            | T            | $\top$   | T            | Ţ           | Ţ         | I             | ]        |   | 148        |           | $\Box$       | 1            | Ţ       | T        |          |              |                |  |
| _               | 49<br>50 | H  |          | Н               | $\vdash$ | $\vdash$ | -        | $\vdash$ | $\vdash$       | $\dashv$       | -          |          | 99<br>100              | +                   | $\dashv$     | +            | +        | +            | +           | +         | +             | ┨        |   | 149<br>150 | H         |              | +            | +       | +        | $\vdash$ | -            | H              |  |
|                 |          |  |          | 1               |          |          | r. I     |          |                |                | 1          |          |                        |                     |              |              |          | _ 1          | - 1         | 1         | - 1           |          |   |            | , 1       | - 1          | 1            |         | 1        | 1        | 1            |                |  |